

S/N 09/935,580

Response to Office Action Dated 04/17/2006

**In the Claims**

1—24. Cancel.

25. (Currently Amended) A processor-implemented method for printing a test pattern, comprising:

determining a size of a print medium upon which the test pattern is to be printed;

configuring the test pattern to include as many ~~elements~~ color ramps as will fit per row based on the size of the print medium, wherein height of the test pattern is increased in response to availability of ~~elements~~ color ramps beyond which will fit in a row on ~~[[a]]the print medium, and wherein the color ramps are arrayed horizontally along a width of the print medium when the size of the print medium allows, and are arrayed vertically when the size of the print medium requires; and~~

printing the test pattern on the print medium.

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1           26. (Currently Amended) The processor-implemented method of claim  
2 25, wherein configuring the test pattern ~~to include as many elements as will fit per~~  
3 ~~row~~ comprises:

4           ~~configuring each row of the test pattern to include as many color ramps as~~  
5 ~~will fit on a row, up to a number of color ramps to be printed.~~

6           configuring the test pattern to include a plurality of color ramps, wherein  
7 each color ramp includes a number of color patches, wherein the number of color  
8 patches is based on the size of the print medium.

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11           27. (Currently Amended) The processor-implemented method of claim  
12 25, wherein configuring the test pattern ~~to include as many elements as will fit per~~  
13 ~~row~~ comprises:

14           configuring the test pattern to include a second row only when space does  
15 not exist on a first row to add an additional ~~element~~ color ramp.

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18           28. (Currently Amended) The processor-implemented method of claim  
19 25, wherein configuring the test pattern ~~to include as many elements color ramps~~  
20 ~~as will fit per row~~ comprises:

21           configuring different test patterns for differently sized print media to  
22 include different numbers of elements color ramps per row and different numbers  
23 of color patches per color ramp, wherein for to each size of print media, each row  
24 is filed before another row is started.  
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1 29. (Currently Amended) The processor-implemented method of claim  
2 25, wherein configuring the test pattern comprises:

3 configuring the ~~elements~~ color ramps to be printed ~~according to a size of~~  
4 ~~each of the elements~~ based on adjustment of variables, the variables comprising:

5 a number of color ramps within the test pattern;

6 a number of color patches within each color ramp;

7 a height of the color patches; and

8 a width of the color patches.

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11 30. (Currently Amended) The processor-implemented method of claim  
12 25, wherein configuring the test pattern comprises:

13 ~~configuring the test pattern~~ moving the color ramps relative to each other  
14 to maximize width of the test pattern and minimize height of the test pattern.

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17 31. (Currently Amended) The processor-implemented method of claim  
18 25, wherein configuring the test pattern comprises:

19 adjusting a relative position of ~~elements~~ the color ramps, between locating  
20 the ~~elements~~ color ramps on a same row and locating the ~~elements~~ color ramps on  
21 two different rows, based upon size of the ~~elements~~ color ramps and space  
22 available in the same row.  
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32. (Currently Amended) The processor-implemented method of claim 25, wherein as many ~~elements~~ color ramps as will fit per row is based on a size of the ~~elements~~ color ramps and a width of the print medium.

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1 33. (Currently Amended) A printing apparatus processor implemented  
2 method configured for printing a test pattern, comprising:  
3 a print engine configured to print the test pattern according to instructions  
4 for:  
5 \_\_\_\_\_determining a width of a print medium;  
6 \_\_\_\_\_configuring the test pattern to include as many ~~elements~~ color ramps  
7 as will fit per row ~~of the test pattern~~, based on the width of the print medium and  
8 size of the ~~elements~~ color ramps, wherein the configuring moves an element which  
9 will not fit on a first row into a second row wherein the moved element will fit in  
10 its entirety; and is performed using parameters, comprising:  
11 a number of color ramps within the test pattern;  
12 a number of color patches within each color ramp;  
13 a height of the color patches; and  
14 a width of the color patches; and  
15 adjusting the parameters, wherein the adjustment arrays the color  
16 ramps horizontally along the width of the print medium when the size of the print  
17 medium allows, and wherein the color ramps are arrayed vertically when the size  
18 of the print medium requires; and  
19 \_\_\_\_\_printing the test pattern on the print medium based on the adjusted  
20 parameters.  
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1           34. (Currently Amended) The ~~processor implemented method of claim~~  
2 ~~33, wherein the method additionally comprises printing apparatus of claim 33,~~  
3 additionally comprising instructions for:

4           ~~increasing height of the test pattern only in response to availability of~~  
5 ~~elements which will not fit on a row.~~

6           adjusting the number of the color patches to utilize the entire width of the  
7 print media.

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10           35. (Currently Amended) The ~~processor implemented method printing~~  
11 apparatus of claim 33, wherein configuring the test pattern to include as many  
12 elements as will fit per row comprises: is performed after the width of the print  
13 media is determined and before printing the test pattern is performed.

14           ~~configuring each row of the test pattern to include as many color ramps as~~  
15 ~~will fit on the row, up to a number of color ramps to be printed.~~

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18           36. (Currently Amended) The ~~processor implemented method printing~~  
19 apparatus of claim 33, wherein configuring the test pattern to include as many  
20 elements as will fit per row comprises: there is a lower limit to each of the height,  
21 the width and the number of the color patch parameters.

22           ~~configuring each element using a single color, and~~

23           ~~confining each single color element to a single row.~~  
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1 37. (Currently Amended) The ~~processor implemented method printing~~  
2 apparatus of claim 33, wherein configuring the test pattern ~~to include as many~~  
3 ~~elements as will fit per row~~ comprises instructions for:

4 configuring differently sized print media to include different numbers of  
5 ~~elements color ramps~~ per row, wherein for each size of print media, each row is  
6 filled before another row is started, wherein height is minimized by including a  
7 plurality of color ramps in a single filling each row before starting another row.

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10 38. (Currently Amended) The ~~processor implemented method printing~~  
11 apparatus of claim 33, wherein configuring the test pattern comprises instructions  
12 for:

13 locating a second color ramp relative to a first color ramp to minimize  
14 ~~minimizing~~ a height of the test pattern, while maximizing a width of the test  
15 pattern, ~~wherein each element comprises a color ramp fully contained on a row of~~  
16 ~~the test pattern.~~

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1 39. (Currently Amended) A printing apparatus configured for printing a  
2 test pattern, comprising:

3 means for measuring a size of a print medium upon which the test pattern is  
4 to be printed;

5 means for configuring the test pattern to include as many ~~elements~~ color  
6 ramps as will fit per row based on the size of the print media and moving ~~elements~~  
7 color ramps which will not fit on a first row into a second row wherein the moved  
8 ~~element~~ color ramp will fit in its entirety, wherein the color ramps are arrayed  
9 horizontally along a width of the print medium when the size of the print medium  
10 allows, and wherein the color ramps are arrayed vertically when the size of the  
11 print medium require, and wherein size and number of color patches is adjusted to  
12 completely fill a row in the test pattern; and

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14 means for printing the test pattern on the print medium.  
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17 40. (Previously Presented) The printing apparatus of claim 39, wherein  
18 the means for configuring the test pattern maximizes width and minimizes height  
19 of a test pattern comprising a number of color ramps.  
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21 41. (Previously Presented) The printing apparatus of claim 39, wherein  
22 the means for configuring the test pattern adds a second row only when space does  
23 not exist on a first row to add an additional element in the additional element's  
24 entirety.  
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42. (Previously Presented) The printing apparatus of claim 39, wherein the means for configuring the test pattern configures differently sized print media to include different numbers of elements per row, wherein for each size of print media, each row is filed before another row is started.

43. (Previously Presented) The printing apparatus of claim 39, wherein the means for configuring the test pattern minimizes a height of the test pattern and maximizes a width of the test pattern, wherein each element within the test pattern comprises a color ramp fully contained on a row of the test pattern.

44. (Previously Presented) The printing apparatus of claim 39, wherein:  
the means for configuring the test pattern maximizes width of the test pattern and minimizes height of the test pattern; and  
the means for printing is adapted for printing on rolled media.